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FIBER ORGANON

Volume 61, No. 5 May 1990

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Highlights

- 1989 Per Capita Consumption Review... begins on page 87.
- May 1990 Capacity Survey Analysis... begins on page 92.
- Canadian Mill Consumption... begins on page 95.

SHIPMENTS:

In April, total manufactured fiber shipments reached 748 million pounds, 3% above the 726 million pounds shipped in March and 5% below the 783 million pounds shipped in April 1989.

April shipments of synthetic (noncellulosic) filament yarn rose 5% to 361 million pounds and staple+tow rose 1% to 341 million pounds.

Contributing to the increase in shipments over the previous month were polyester textile yarn up 20% or 12 million pounds, nylon textile yarn up 7% or 2 million pounds and polyester staple+tow, up 8 million pounds or 5%.

Year-to-date domestic shipments of manufactured fiber are down 6% and exports are down 14%.

TABLE 1:
TOTAL U.S. MANUFACTURED FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1990 APR	1990 MAR	% CHG 4/90 - 3/90	1989 APR	% CHG 4/90 - 4/89	YEAR TO DATE 1990	YEAR TO DATE 1989	% CHG YTD 1990 - 1989
ARTIFICIAL (CELLULOSIC)								
YARN	18.1	17.4	*+4.0*	21.5	*-15.8*	66.0	74.3	*-11.2*
RAYON STAPLE	28.2	26.3	*+7.2*	31.4	*-10.2*	109.9	134.5	*-18.3*
TOTAL ARTIFICIAL (CELL.)	**46.3**	**43.7**	***+5.9***	**52.9**	***-12.5***	**175.9**	**208.8**	***-15.8***
SYNTHETIC (NONCELL.)								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	28.4	28.4	- -	32.3	*-12.1*	112.0	126.7	*-11.6*
- CARPET	85.4	82.2	*+3.9*	77.5	*+10.2*	335.2	311.6	*+7.6*
- TEXTILE[a]	32.0	29.9	*+7.0*	34.6	*-7.5*	119.0	136.7	*-12.9*
POLYESTER - INDUSTRIAL	32.6	31.8	*+2.5*	32.2	*+1.2*	120.2	121.4	*-1.0*
- TEXTILE[a]	69.8	58.0	*+20.3*	78.2	*-10.7*	240.6	297.0	*-19.0*
OLEFIN	112.3	114.1	*-1.6*	104.1	*+7.9*	444.8	417.3	*+6.6*
TOTAL YARN	**360.5**	**344.4**	***+4.7***	**358.9**	***+0.4***	**1371.8**	**1410.7**	***-2.8***
STAPLE+TOW+FIBERFILL								
NYLON	85.0	86.0	*-1.2*	76.4	*+11.3*	334.7	325.9	*+2.7*
ACRYLIC+MODACRYLIC	39.7	43.2	*-8.1*	49.2	*-19.3*	163.0	185.7	*-12.2*
POLYESTER	181.7	173.2	*+4.9*	214.3	*-15.2*	699.5	824.6	*-15.2*
OLEFIN	34.5	35.3	*-2.3*	31.4	*+9.9*	134.5	126.1	*+6.7*
TOTAL STAPLE	**340.9**	**337.7**	***+0.9***	**371.3**	***-8.2***	**1331.7**	**1462.3**	***-8.9***
TOTAL SYNTHETIC (NONCELL.)	**701.4**	**682.1**	***+2.8***	**730.2**	***-3.9***	**2703.5**	**2873.0**	***-5.9***
TOTAL MANUFACTURED FIBER	**747.7**	**725.8**	***+3.0***	**783.1**	***-4.5***	**2879.4**	**3081.8**	***-6.6***
TOTAL SHIPMENTS DIVIDED AS								
DOMESTIC SHIPMENTS[b]	708.0	684.3	*+3.5*	739.2	*-4.2*	2726.3	2903.0	*-6.1*
EXPORTS[c]	39.7	41.5	*-4.3*	43.9	*-9.6*	153.1	178.8	*-14.4*

a Includes low denier industrial yarn.
b Includes olefin exports.
c Excludes olefin exports.

May 1990

Fiber Organon

A Monthly Review

CONTENTS

Features

1989 Per Capita Consumption Review 87 - 91
- Graph 1: Per Capita Consumption 87
- Graph 2: Comparison of Population, GNP and Per Capita Consumption 88
- U.S. Population, Gross National Product and Per Capita GNP 89
- U.S. Total Fiber Consumption 89
- U.S. Per Capita Fiber Consumption 89
- Mill Consumption by Fiber 90
- Percent Analysis of Population, Per Capita GNP and Per Capita Consumption of Manufactured Fiber, Cotton, Wool & Other Fibers 90
- Per Capita Consumption of Imports of Manufactured Fiber, Cotton & Wool Manufactures Compared with Per Capita Consumption of Fibers 91

May 1990 Capacity Survey Analysis 92 - 94
- Graph 3: Manufactured Fiber Industry Production and Producing Capacity 92
- U.S. Manufactured Fiber Production and Producing Capacity 93
- Synthetic (Noncellulosic) Fiber Capacity Detail 94

Canadian Mill Consumption 95 - 98
- Canadian Mill Consumption of Fiber 95
- Canadian Per Capita Fiber Consumption 95
- Canadian Mill Consumption of Fiber and Domestic Consumption of Products 96 - 97
- Canadian Mill Consumption of Manufactured Fiber, Cotton & Wool 98

Industry Regulars

Total U.S. Manufactured Fiber Shipments 85

Monthly U.S. Manufactured Fiber Data 99 - 101
- Imports by Country of Origin 99
- Imports by Fiber 100
- Exports by Fiber 101

Quarterly Manufactured Fiber Data 102 - 103
- Filament Yarn Domestic Shipments 102
- Staple+Tow Domestic Shipments 103

Selected U.S. Monthly Fiber Data 104

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1989 PER CAPITA CONSUMPTION REVIEW

Per capita consumption of all fibers rose to 67.9 pounds in 1989, 3.0% above the 65.9 pounds recorded in 1988.

In 1989, per capita GNP grew 1.9% over 1988, while per capita manufactured fiber consumption fell 1.2%. Cotton per capita consumption increased 13.1%, wool fell 6.7%, and other fibers (silk, linen, jute and sisal & other) fell 9.5%.

Since 1979, the U.S. population has grown 10.5%. At the same time, the per capita GNP has increased 17.4% (in constant 1982 dollars), while per capita consumption of all fibers rose 17.7%, manufactured fiber per capita consumption increased 7.7%, wool rose 55.6%, and other fibers (silk, linen, jute and sisal & other) fell 57.8%. (See Table 6)

TABLE & GRAPH SUMMARY

The tables and graphs contained in this review are described as follows:

Table 2: Per capita GNP derived by dividing the annual Gross National Product data by the population July 1st.

Table 3: Total U.S. domestic fiber consumption from the April ***Fiber Organon,*** page 73.

Table 4: Domestic consumption data in Table 3 divided by July 1st population data.

Table 5: Summary of total mill consumption of all fibers, except glass fiber.

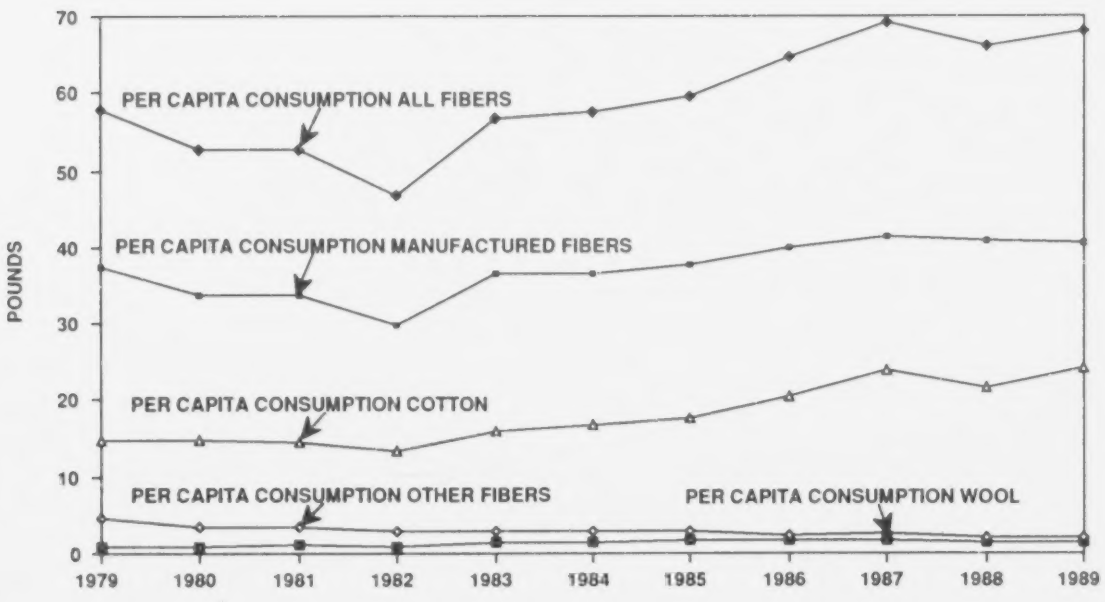
Table 6: Percent change and relative growth over time of population, per capita GNP and per capita consumption of the various fibers.

Table 7: Listing of imports in per capita terms and their percentage growth over time for comparison with overall per capita domestic consumption.

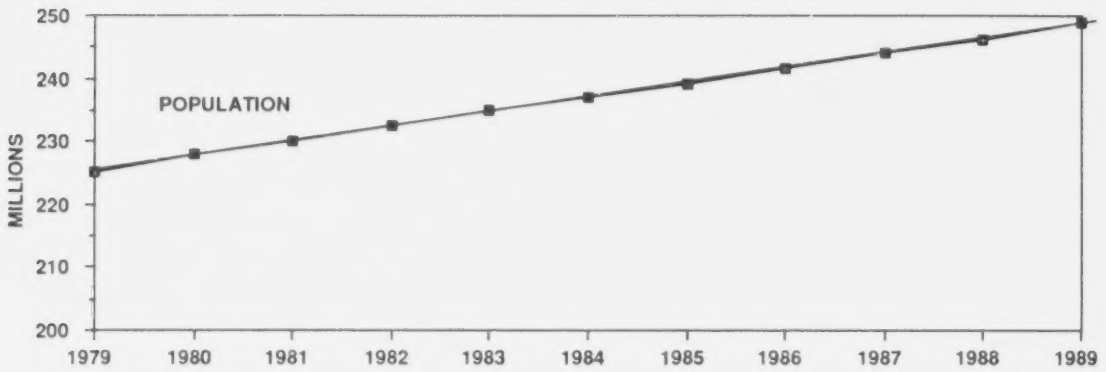
Graph 1: Per capita consumption of all fibers, based on the data in Table 4.

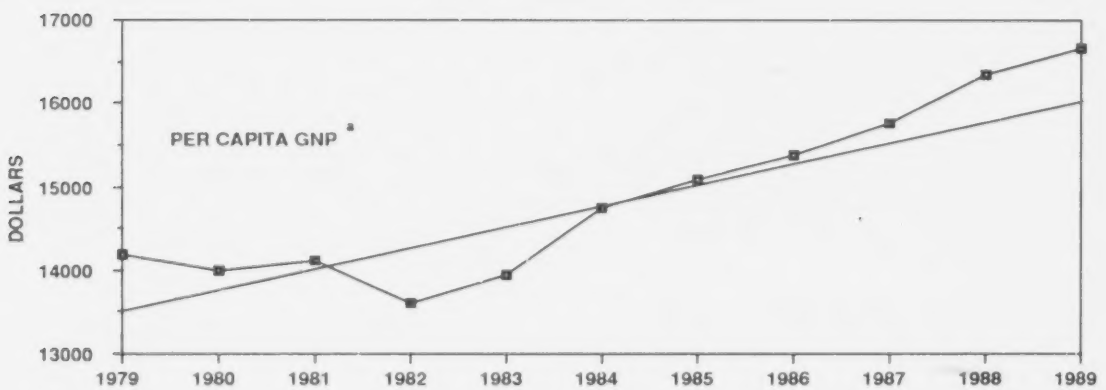
Graph 2: Growth in the population and trends in per capita GNP and per capita consumption of all fibers, as shown in Tables 2 and 4.

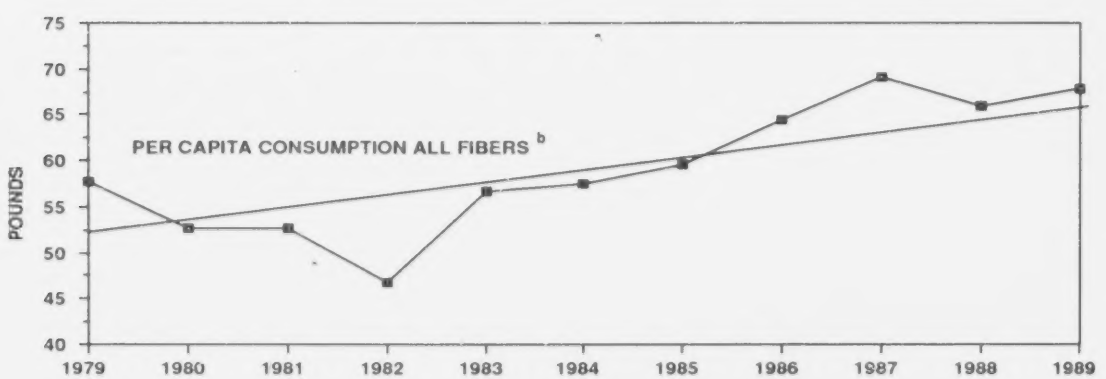
GRAPH 1:
PER CAPITA CONSUMPTION



GRAPH 2:
COMPARISON OF POPULATION, GNP & PER CAPITA CONSUMPTION OF ALL FIBERS







a. In 1982 dollars
b. Data on Glass Fiber are no longer available to prevent company level disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 2:
U.S. POPULATION, GROSS NATIONAL PRODUCT & PER CAPITA GROSS NATIONAL PRODUCT

YEAR	POPULATION [a]	GNP [b]	PER CAPITA GNP [c]
1979	225.1	3192.4	14182
1980	227.8	3187.1	13991
1981	230.1	3248.8	14119
1982	232.5	3166.0	13617
1983	234.8	3275.2	13949
1984	237.0	3492.0	14734
1985	239.3	3607.5	15075
1986	241.6	3713.3	15370
1987	243.9	3847.0	15773
1988	246.3	4024.4	16339
1989	248.8	4143.7	16655

SOURCE: *Current Population Reports*, U.S. Dept. of Commerce Bureau of the Census.
Survey of Current Business, U.S. Dept. of Commerce Bureau of Economic Analysis.

a. In millions. Population data for all years have been changed to that of July 1.
b. In billions of 1982 dollars.
c. In dollars.

TABLE 3:
U.S. TOTAL FIBER CONSUMPTION
MILLION POUNDS

YEAR	MFRD. FIBER [a]	COTTON	WOOL	OTHER FIBERS	TOTAL
1979	8451.8	3334.5	201.0	1021.9	13009.2
1980	7654.8	3352.2	199.1	807.0	12013.1
1981	7722.9	3325.4	234.0	794.7	12077.0
1982	6912.9	3122.7	218.8	648.4	10902.8
1983	8603.2	3711.5	300.7	690.3	13305.7
1984	8644.2	3929.2	361.4	680.1	13614.9
1985	9027.4	4212.0	381.7	646.9	14268.0
1986	9637.6	4937.4	424.1	582.4	15581.5
1987	10075.2	5774.2	404.6	603.5	16857.5
1988	10068.5	5258.7	367.9	511.0	16206.1
1989	10056.4	6017.1	335.9	477.4	16886.8

a. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 4:
U.S. PER CAPITA FIBER CONSUMPTION [a]
POUNDS

PERIOD	POPULATION	PER CAPITA				
		MFRD. FIBER [b]	COTTON	WOOL	OTHER FIBERS	TOTAL
1979	225.1	37.5	14.8	0.9	4.5	57.7
1980	227.8	33.6	14.7	0.9	3.5	52.7
1981	230.1	33.6	14.5	1.0	3.5	52.6
1982	232.5	29.7	13.4	0.9	2.8	46.8
1983	234.8	36.6	15.8	1.3	2.9	56.6
1984	237.0	36.5	16.6	1.5	2.9	57.5
1985	239.3	37.7	17.6	1.6	2.7	59.6
1986	241.6	39.9	20.4	1.8	2.4	64.5
1987	243.9	41.3	23.7	1.7	2.5	69.2
1988	246.3	40.9	21.4	1.5	2.1	65.9
1989	248.8	40.4	24.2	1.4	1.9	67.9

a. Based on total U.S. domestic consumption (mill consumption plus imports less exports of semimanufactured and manufactured products).
b. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 5:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	OTHER FIBERS	TOTAL
1979	0.5	0.3	2.7	3.7	0.6	0.7	3.1	0.1	0.2	11.9
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	0.1	11.2
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	0.1	10.7
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	0.1	9.4
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	0.1	11.0
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	0.1	10.7
1985	0.5[d]		2.6	3.1	0.5	1.4	2.8	0.1	0.1	11.1
1986	0.6[d]		2.5	3.2	0.6	1.5	3.3	0.2	0.1	12.0
1987	0.6[d]		2.7	3.5	0.5	1.6	3.7	0.2	0.1	12.9
1988	0.6[d]		2.7	3.6	0.5	1.5	3.5	0.2	0.1	12.7
1989	0.6[d]		2.6	3.6	0.5	1.7	3.9	0.2	0.1	13.2

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

a. Includes triacetate. Cigarette tow is excluded.

b. Includes Aramid for all years except 1983-1989.

c. Includes modacrylic.

d. Rayon and acetate combined.

TABLE 6:
PERCENT ANALYSIS OF POPULATION, PER CAPITA GNP AND PER CAPITA CONSUMPTION OF MANUFACTURED FIBER, COTTON, WOOL & OTHER FIBERS

							PER CAPITA CONSUMPTION													
YEAR	POPULATION	%[a]	%[b]	PER CAPITA GNP	%[a]	%[b]	MANUFAC. FIBER[c]	%[a]	%[b]	COTTON	%[a]	%[b]	WOOL	%[a]	%[b]	OTHER FIBERS	%[a]	%[b]	ALL FIBERS	%[a]	%[b]
1979	225.1	--	--	14182	--	--	37.5	--	--	14.8	--	--	0.9	--	--	4.5	--	--	57.7	--	--
1980	227.8	*+1.2*	*+1.2*	13991	*-1.3*	*-1.3*	33.6	*-10.4*	*-10.4*	14.7	*-0.7*	*-0.7*	0.9	--	--	3.5	*-22.2*	*-22.2*	52.7	*-8.7*	*-8.7*
1981	230.1	*+1.0*	*+2.2*	14119	*+0.9*	*-0.4*	33.6	--	*-10.4*	14.5	*-1.4*	*-2.0*	1.0	*+11.1*	*+11.1*	3.5	--	*-22.2*	52.6	*-0.2*	*-8.8*
1982	232.5	*+1.0*	*+3.3*	13617	*-3.6*	*-4.0*	29.7	*-11.6*	*-20.8*	13.4	*-7.6*	*-9.5*	0.9	*-10.0*	--	2.8	*-20.0*	*-37.8*	46.8	*-11.0*	*-18.9*
1983	234.8	*+1.0*	*+4.3*	13949	*+2.4*	*-1.6*	36.6	*+23.2*	*-2.4*	15.8	*+17.9*	*+6.8*	1.3	*+44.4*	*+44.4*	2.9	*+3.6*	*-35.6*	56.6	*+20.9*	*-1.9*
1984	237.0	*+0.9*	*+5.3*	14734	*+5.6*	*+3.9*	36.5	*-0.3*	*-2.7*	16.6	*+5.1*	*+12.2*	1.5	*+15.4*	*+66.7*	2.9	--	*-35.6*	57.5	*+1.6*	*-0.3*
1985	239.3	*+1.0*	*+6.3*	15075	*+2.3*	*+6.3*	37.7	*+3.3*	*+0.5*	17.6	*+6.0*	*+18.9*	1.6	*+6.7*	*+77.8*	2.7	*-6.9*	*-40.0*	59.6	*+3.7*	*+3.3*
1986	241.6	*+1.0*	*+7.3*	15370	*+2.0*	*+8.4*	39.9	*+5.8*	*+6.4*	20.4	*+15.9*	*+37.8*	1.8	*+12.5*	*+100.0*	2.4	*-11.1*	*-46.7*	64.5	*+8.2*	*+11.8*
1987	243.9	*+1.0*	*+8.4*	15773	*+2.6*	*+11.2*	41.3	*+3.5*	*+10.1*	23.7	*+16.2*	*+60.1*	1.7	*-5.6*	*+88.9*	2.5	*+4.2*	*-44.4*	69.2	*+7.3*	*+19.9*
1988	246.3	*+1.0*	*+9.4*	16339	*+3.6*	*+15.2*	40.9	*-1.0*	*+9.1*	21.4	*-9.7*	*+44.6*	1.5	*-11.8*	*+66.7*	2.1	*-16.0*	*-53.3*	65.9	*-4.8*	*+14.2*
1989	248.8	*+1.0*	*+10.5*	16655	*+1.9*	*+17.4*	40.4	*-1.2*	*+7.7*	24.2	*+13.1*	*+63.5*	1.4	*-6.7*	*+55.6*	1.9	*-9.5*	*-57.8*	67.9	*+3.0*	*+17.7*

Population is in millions of people.
Per Capita GNP is 1982 dollars.
All other Per Capita Consumption data are in pounds.
All data are taken from the tables on page 89.

a. Percent change year to year.

b. Percent change since 1979.

c. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 7:
PER CAPITA CONSUMPTION OF IMPORTS OF MANUFACTURED FIBER, COTTON & WOOL MANUFACTURES COMPARED WITH PER CAPITA TOTAL CONSUMPTION OF MANUFACTURED FIBER, COTTON & WOOL

POUNDS & *PERCENT*

	IMPORTS															DOMESTIC FIBER CONSUMPTION					
	MANUFACTURED FIBER					COTTON					WOOL										
YEAR	TOTAL	% [a]	APPAREL	% [a]	% [b]	TOTAL	% [a]	APPAREL	% [a]	% [b]	TOTAL	% [a]	APPAREL	% [a]	% [b]	MANU-FACTURED FIBER [c]	% [a]	COTTON	% [a]	WOOL	% [a]
1980	2.4		1.7		70.8	3.6		2.0		55.6	0.4		0.2		50.0	33.6		14.7		0.9	
1981	2.8	+16.7	1.9	+11.8	67.9	4.2	+16.7	2.2	+10.0	52.4	0.4	--	0.2	--	50.0	33.6	--	14.5	-1.4	1.0	+11.1
1982	3.0	+7.1	2.1	+10.5	70.0	3.9	-7.1	2.2	--	56.4	0.4	--	0.2	--	50.0	29.7	-11.6	13.4	-7.6	0.9	-10.0
1983	4.6	+53.3	2.5	+19.0	54.3	4.8	+23.1	2.7	+22.7	56.3	0.6	+50.0	0.3	+50.0	50.0	36.6	+23.2	15.8	+17.9	1.3	+44.4
1984	5.7	+23.9	2.9	+16.0	50.9	6.2	+29.2	3.2	+18.5	51.6	0.8	+33.3	0.3	--	37.5	36.5	-0.3	16.6	+5.1	1.5	+15.4
1985	5.8	+1.8	3.3	+13.8	56.9	6.7	+8.1	3.7	+15.6	55.2	1.0	+25.0	0.6	+100.0	60.0	37.7	+3.3	17.6	+6.0	1.6	+6.7
1986	7.0	+20.7	3.8	+15.2	54.3	7.9	+17.9	4.2	+13.5	53.2	1.1	+10.0	0.6	--	54.5	39.9	+5.8	20.4	+15.9	1.8	+12.5
1987	7.4	+5.7	4.2	+10.5	56.8	9.6	+21.5	5.2	+23.8	54.2	1.1	--	0.7	+16.7	63.6	41.3	+3.5	23.7	+16.2	1.7	-5.6
1988	7.0	-5.4	4.0	-4.8	57.1	8.6	-10.4	5.1	-1.9	59.3	1.0	-9.1	0.6	-14.3	60.0	40.9	-1.0	21.4	-9.7	1.5	-11.8
1989	7.3	+4.3	4.2	+5.0	57.5	9.8	+14.0	5.8	+13.7	59.2	0.9	-10.0	0.6	--	66.7	40.4	-1.2	24.2	+13.1	1.4	-6.7

a. Percent change from previous year.

b. Apparel as percent of total imports of semimanufactured and manufactured products.

c. Excludes Glass Fiber. Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

MAY 1990 CAPACITY SURVEY ANALYSIS

U.S. Manufactured Fiber Capacity Utilization at 84%

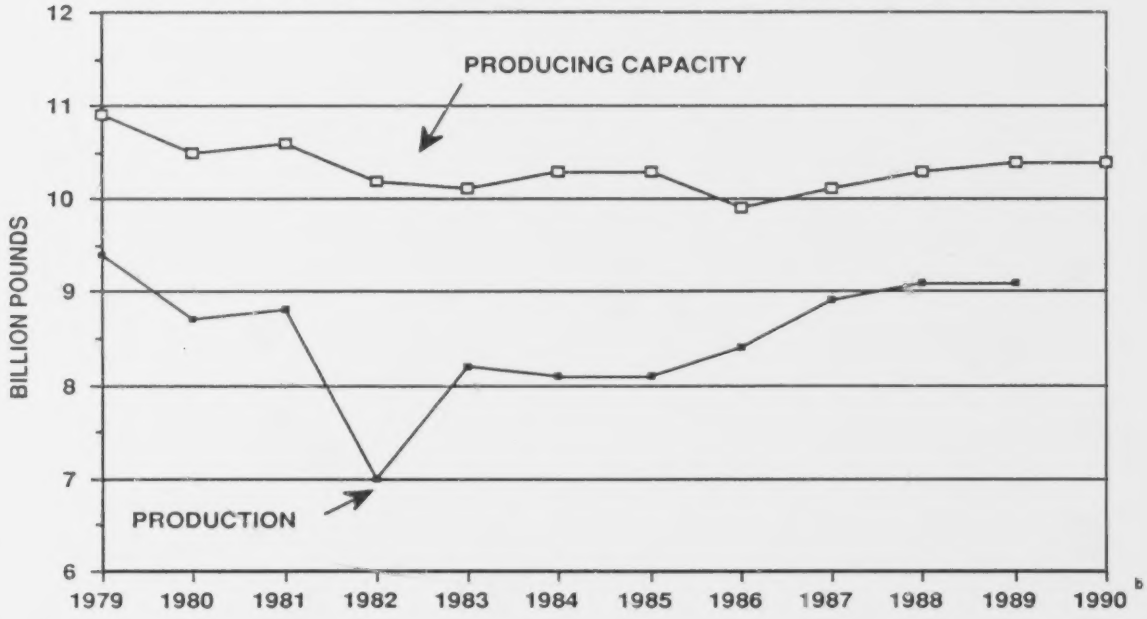
Based on yearly January - April production data and May 1990 Capacity Survey results, the capacity utilization rate for the U.S. manufactured fiber industry stood at 84% as compared to 87% in 1989 (Graph 3).

Total industry capacity (excluding glass fiber) rose to 10,437 million pounds, slightly above the 10,397 million pounds recorded in the November 1989 Survey.

Since November 1989, the synthetic (noncellulosic) filament yarn capacity rose from 4,918 million pounds to 5,031 million pounds, with a 2% gain in nylon carpet yarn.

In 1990, capacity for synthetic (noncellulosic) staple+tow increased 2% to 4,864 million pounds, the highest level since November 1986, when capacity stood at 4,662 million pounds (Table 9). A major increase was shown in polyester staple+tow where the capacity rose from 2,464 million pounds in November 1989 to 2,569 million pounds in May 1990.

GRAPH 3:
MANUFACTURED FIBER INDUSTRY PRODUCTION & PRODUCING CAPACITY [a]



a. Artifical (Cellulosic) and Synthetic (Noncellulosic) fiber excluding glass fiber.
b. Based on May 1990 capacity survey.

TABLE 8:
U.S. MANUFACTURED FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

PERIOD	ARTIFICIAL (CELLULOSIC) FIBERS							SYNTHETIC (NONCELLULOSIC) FIBERS [a]			GRAND TOTAL MANUFACTURED FIBERS EXCLUDING GLASS FIBER			NON-ADD GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW				YARN +MONO	STAPLE +TOW		YARN +MONO [c]	STAPLE +TOW		
	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL			TOTAL			TOTAL	
ACTUAL ANNUAL PRODUCTION														
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	+	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4720	8921	NA
1988			214 g			400 g	614	4180	4346	8526	4394	4746	9140	NA
1989			218 g			363 g	581	4225	4290	8515	4443	4653	9096	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1977 e	85	315	400	655	8	663	1063	4958	4394	9352	5358	5057	10415	1002
NOV 1978 e	83	330	413	665	8	673	1086	4984	4571	9555	5397	5244	10641	1118
NOV 1979 e	75	355	430	671	8	679	1109	5106	4678	9784	5536	5357	10893	1305
NOV 1980 e	63	324	387	514	8	522	909	4913	4714	9627	5300	5236	10536	1473
NOV 1981 e	52	332	384	509	5	514	898	4746	4950	9696	5130	5464	10594	1551
NOV 1982 e	63	318	381	510	4	514	895	4553	4781	9334	4934	5295	10229	1718
NOV 1983 e	63	268	331	510	4	514	845	4447	4827	9274	4778	5341	10119	1618
NOV 1984 e	63	268	331	510	4	514	845	4479	4981	9460	4810	5495	10305	1743
NOV 1985 e			269 g	510	5	515	784	4668	4890	9558	4937	5405	10342	1769
NOV 1986 e			244 g			465 g	709	4545	4662	9207	4789	5127	9916	1763
NOV 1987 e			244 g			465 g	709	4557	4793	9350	4801	5258	10059	1642
NOV 1988 e			244 g			469 g	713	4743	4849	9592	4987	5318	10305	1729
NOV 1989 e			232 g			492 g	724	4918	4755	9673	5150	5247	10397	1822
MAY 1990 e			219 g			323 g	542	5031	4864	9895	5250	5187	10437	1867
NOV 1990 f			219 g			323 g	542	5238	4929	10167	5457	5252	10709	1894
MAY 1991 f			219 g			323 g	542	5334	5036	10370	5553	5359	10912	1910
NOV 1991 f			219 g			323 g	542	5412	5126	10538	5631	5449	11080	1981
MAY 1992 f			219 g			323 g	542	5472	5153	10625	5691	5476	11167	2052

NA No longer available.

a. Included are those listed in the November ***Fiber Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large quantities for cigarette filtration.

c. Grand Total Yarn means the yarn+mono shown, excluding glass fiber.

d. Glass fiber, all types.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of NOV 1990.

g. Detail withheld due to disclosure of company data.

TABLE 9:
SYNTHETIC (NONCELLULOSIC) FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER											STAPLE, TOW & FIBERFILL					SYNTHETIC (NONCELLULOSIC) TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]									
			TEXTILE			TEXTILE						NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [e]	TOTAL	
PERIOD	IND	CARP	LBS	DEN	IND	LBS	DEN	YARN	MONO [b]	FILM [b]	TOTAL						
NOV 1977 c	523	829	558	*55*	443	1698	*126*	173	336	398	4958	939	869	2470	116	4394	9352
NOV 1978 c	510	908	565	*53*	443	1643	*116*	174	347	394	4984	1023	865	2554	129	4571	9555
NOV 1979 c	513	950	579	*51*	443	1699	*114*	172	342	408	5106	1020	839	2673	146	4678	9784
NOV 1980 c	515	910	551	*52*	400	1637	*113*	120	350	430	4913	991	830	2759	134	4714	9627
NOV 1981 c	514	893	553	*49*	316	1481	*114*	178	356	455	4746	1010	835	2839	266	4950	9696
NOV 1982 c	474	925	513	*53*	338	1265	*119*	209	369	460	4553	978	832	2700	271	4781	9334
NOV 1983 c	440	907	494	*52*	337	1170	*122*	240	375	484	4447	1017	826	2704	280	4827	9274
NOV 1984 c	437	926	470	*57*	342	1162	*121*	270	386	486	4479	1054	807	2784	336	4981	9460
NOV 1985 c	437	965	466	*53*	374	1097	*126*	304	412	513	4668	1067	631	2785	407	4890	9558
NOV 1986 c	435	964	398	*51*	401	1021	*123*	286	407	633	4545	1077	637	2491	457	4662	9207
NOV 1987 c	418	1005	404	*49*	399	929	*121*	342	393	667	4557	1137	652	2522	482	4793	9350
NOV 1988 c	421	1053	423	*49*	408	968	*121*	392	399	679	4743	1137	642	2584	486	4849	9592
NOV 1989 c	420	1168	430	*48*	420	900	*115*	491	405	684	4918	1150	641	2464	500	4755	9673
MAY 1990 c	419	1197	446	*48*	419	884	*113*	548	443	675	5031	1142	641	2569	512	4864	9895
NOV 1990 d	420	1215	456	*48*	434	964	*116*	597	469	683	5238	1152	651	2610	516	4929	10167
MAY 1991 d	420	1225	461	*48*	440	974	*117*	639	481	694	5334	1152	651	2684	549	5036	10370
NOV 1991 d	420	1230	476	*48*	440	979	*117*	688	482	697	5412	1162	651	2752	561	5126	10538
MAY 1992 d	420	1248	486	*48*	445	979	*117*	708	486	700	5472	1167	651	2752	583	5153	10625

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.
IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.
CARP Bulked continuous filament yarn for carpets.
TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.
b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.
c. Actual producing capacity as of date shown.
d. Future producing capacity planned for certain dates as of NOV 1990.
e. Data since November 1986 do not include Vinyon.

NOTE: THE INCREASE IN CAPACITY FOR OLEFIN YARN, MONOFILAMENT AND FILM FIBER IS DUE TO A MORE THOROUGH RESPONSE AND NOT BECAUSE OF ADDITIONAL CAPACITY COMING ON STREAM.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the manufactured fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is **not** included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 10:
CANADIAN MILL CONSUMPTION OF FIBER [a]
MILLION POUNDS

YEAR	MANUFACTURED FIBER [a]	COTTON	WOOL	TOTAL
1980	464.3	130.1	10.9	605.3
1981	387.9	132.3	15.0	535.2
1982	341.9	88.2	11.7	441.8
1983	424.3	121.3	14.7	560.3
1984	444.1	121.3	14.4	579.8
1985	472.9	105.8	16.1	594.8
1986	548.8	119.0	17.6	685.4
1987	551.2	94.8	15.3	661.3
1988	544.8	91.7	14.0	650.5

TABLE 11:
CANADIAN PER CAPITA FIBER CONSUMPTION [a]
POUNDS

PERIOD	POPULATION	PER CAPITA			
		MANUFACTURED FIBER	COTTON	WOOL	TOTAL
1980	24.1	19.3	5.4	0.5	25.2
1981	24.4	15.9	5.3	0.6	21.8
1982	24.7	13.8	3.6	0.5	17.9
1983	24.9	17.0	4.9	0.6	22.5
1984	25.1	17.7	4.8	0.6	23.1
1985	25.4	18.6	4.2	0.6	23.4
1986	25.6	21.4	4.6	0.7	26.7
1987	25.9	21.3	3.7	0.6	25.6
1988	26.0	21.0	3.5	0.5	25.0

a. Based on Canadian domestic fiber (mill consumption). See pages 96 - 97.
Population in millions of people.

TABLE 12:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

	MANUFACTURED FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)															
	ARTIFICIAL (CELLULOSIC) FIBER								SYNTHETIC (NONCELLULOSIC) FIBER							
	YARN+MONOFIL			STAPLE+TOW					YARN+MONOFIL			STAPLE+TOW				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	EXP	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1980	30.9	17.0	47.9	66.1	9.3	75.4	58.7	64.6	163.1	84.2	247.3	105.8	80.9	186.7	34.3	399.7
1981	29.7	17.2	46.9	62.1	4.0	66.1	54.7	58.3	145.3	59.5	204.8	96.8	92.8	189.6	64.8	329.6
1982	20.9	21.7	42.6	61.7	2.3	64.0	43.9	62.7	114.6	46.1	160.7	99.2	67.5	166.7	48.2	279.2
1983	22.0	24.3	46.3	66.1	4.1	70.2	56.5	60.0	130.6	99.0	229.6	116.9	86.3	203.2	68.5	364.3
1984	22.0	24.3	46.3	61.3	4.1	65.4	53.2	58.5	137.3	99.0	236.3	130.1	86.3	216.4	67.1	385.6
1985	17.6	25.2	42.8	59.3	4.9	64.2	54.1	52.9	165.6	115.1	280.7	119.9	89.9	209.8	70.5	420.0
1986	19.4	28.3	47.7	64.2	5.2	69.4	47.9	69.2	166.0	129.1	295.1	131.0	100.9	231.9	47.4	479.6
1987	18.7	25.4	44.1	62.8	4.5	67.3	60.5	50.9	157.6	143.1	300.7	128.3	101.3	229.6	30.0	500.3
1988	20.5	26.5	47.0	72.3	3.3	75.6	73.4	49.2	166.0	149.4	315.4	129.2	87.1	216.3	36.1	495.6

Continued on opposite page.

TABLE 12:
CANADIAN MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
(CONTINUED)
MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS									DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
	MANUFACTURED FIBER		COTTON		WOOL		SILK	TOTAL		MANUFACTURED FIBER			COTTON			WOOL			TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(17)		(18)		(19)		(20)	(21)		(22)	(23)	(24)	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)
1980	464.3	*76.7*	130.1	*21.5*	10.9	*1.8*	- -	605.3	*100.0*	268.3	76.5	656.1	192.7	20.9	301.9	40.3	10.1	41.1	501.3	107.5	999.1
1981	387.9	*72.5*	132.3	*24.7*	15.0	*2.8*	- -	535.2	*100.0*	255.7	74.5	569.1	179.2	19.4	292.1	49.8	8.2	56.6	484.7	102.1	917.8
1982	341.9	*77.4*	88.2	*20.0*	11.7	*2.6*	- -	441.8	*100.0*	228.4	60.8	509.5	193.1	24.3	257.0	46.3	6.6	51.4	467.8	91.7	817.9
1983	424.3	*75.7*	121.3	*21.6*	14.7	*2.6*	- -	560.3	*100.0*	303.4	64.2	663.5	181.7	23.8	279.2	59.5	7.5	66.7	544.6	95.5	1009.4
1984	444.1	*76.6*	121.3	*20.9*	14.4	*2.5*	- -	579.8	*100.0*	342.6	71.9	714.8	198.0	23.4	295.9	72.7	7.5	79.6	613.3	102.8	1090.3
1985	472.9	*79.5*	105.8	*17.8*	16.1	*2.7*	- -	594.8	*100.0*	356.7	62.6	767.0	169.1	23.4	251.5	73.9	9.7	80.3	599.7	95.7	1098.8
1986	548.8	*80.1*	119.0	*17.4*	17.6	*2.6*	- -	685.4	*100.0*	394.2	71.2	871.8	246.7	35.5	330.2	77.5	13.2	81.9	718.4	119.9	1283.9
1987	551.2	*83.4*	94.8	*14.3*	15.3	*2.3*	- -	661.3	*100.0*	414.2	92.8	872.6	304.0	38.8	360.0	75.4	12.6	78.1	793.6	144.2	1310.7
1988	544.8	*83.7*	91.7	*14.1*	14.0	*2.2*	- -	650.5	*100.0*	DATA NOT AVAILABLE AT PUBLICATION TIME											

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

1 - 16: ***Fiber Organon***, January 1990 and earlier editions.

18: ***International Cotton Advisory Committee***, October 1990 & 1989 issues. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31, 1988.

19: ***Commonwealth Secretariat***. Wool refers to virgin wool, clean basis, at the spinning stage.

22, 23, 25, 26, 28 & 29: ***Food and Agriculture Organization of the United Nations***. Some data are preliminary.

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as columns 1+2=3, 4+5=6, etc. are not described here.)

8 Columns 3 + 6 - 7

16 Columns 11 + 14 - 15

17 Columns 8 + 16

24 Columns 17 + 22 - 23

27 Columns 18 + 25 - 26

30 Columns 19 + 28 - 30

TABLE 13:
CANADIAN MILL CONSUMPTION OF MANUFACTURED FIBER, COTTON, & WOOL
MILLION POUNDS & *PERCENT*

YEAR	GRAND TOTAL		COTTON [b]		WOOL [c]		MANUFACTURED FIBER [a]		MANUFACTURED FIBER DETAIL			
									ARTIFICIAL (CELL.) TOTAL [d]		SYNTHETIC (NONCELL.) TOTAL [d]	
	LB	%	LB	%	LB	%	LB	%	LB	%	LB	%
1980	605.3	*100.0*	130.1	*21.5*	10.9	*1.8*	464.3	*76.7*	64.6	*10.7*	399.7	*66.0*
1981	535.2	*100.0*	132.3	*24.7*	15.0	*2.8*	387.9	*72.5*	58.3	*10.9*	329.6	*61.6*
1982	475.4	*100.0*	88.2	*18.6*	11.7	*2.5*	375.5	*79.0*	83.2	*17.5*	292.3	*61.5*
1983	560.3	*100.0*	121.3	*21.6*	14.7	*2.6*	424.3	*75.7*	60.0	*10.7*	364.3	*65.0*
1984	579.8	*100.0*	121.3	*20.9*	14.4	*2.5*	444.1	*76.6*	58.5	*10.1*	385.6	*66.5*
1985	594.8	*100.0*	105.8	*17.8*	16.1	*2.7*	472.9	*79.5*	52.9	*8.9*	420.0	*70.6*
1986	685.4	*100.0*	119.0	*17.4*	17.6	*2.6*	548.8	*80.1*	69.2	*10.1*	479.6	*70.0*
1987	661.3	*100.0*	94.8	*14.3*	15.3	*2.3*	551.2	*83.4*	50.9	*7.7*	500.3	*75.7*
1988	650.5	*100.0*	91.7	*14.1*	14.0	*2.2*	544.8	*83.8*	49.2	*7.6*	495.6	*76.2*

a. Manufactured fiber data are from ***Fiber Organon***, January 1990 and earlier editions.
The data show the manufactured net available supply, which approximates mill consumptions.

b. **Source:** ***International Cotton Advisory Committee***, October 1989 issue. Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31, 1988.

c. **Source:** ***Commonwealth Secretariat***. Wool refers to virgin wool, clean basis, at the spinning stage.

d. Including yarn, staple+tow and spun yarn.

TABLE 14:
SELECTED U.S. MANUFACTURED FIBER IMPORTS BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1990	1989
ARTIFICIAL (CELLULOSIC) YARN, MONOFIL & STRIPS														
AUSTRIA	67	3	1										71	6
BRAZIL	26	53	53										132	244
CANADA	628	303	171										1102	2054
CHILE	0	309	66										375	88
GERMANY, FED. REP. OF	422	516	844										1782	2031
IRELAND	145	0	36										81	73
JAPAN	104	72	111										287	301
KOREA, REP. OF	0	22	33										55	88
MEXICO	102	4	121										227	426
NETHERLANDS	282	264	345										891	561
UNITED KINGDOM	34	22	60										116	280
ALL OTHER COUNTRIES [a]	21	56	22										99	112
TOTAL ARTIFICIAL YARN	**1831**	**1624**	**1863**										**5318**	**6264**
ARTIFICIAL (CELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	319	493	108										920	1122
CANADA	4973	3854	4391										13218	10840
CHINA, PRC	0	0	0										0	473
GERMANY, DEM. REP.	0	0	0										0	95
GERMANY, FED. REP. OF	89	134	257										480	230
JAPAN	143	204	126										473	1093
SWITZERLAND	0	27	0										27	75
TAIWAN	354	988	1323										2665	56
UNITED KINGDOM	89	93	73										255	491
ALL OTHER COUNTRIES [b]	337	301	183										821	637
TOTAL ARTIFICIAL STAPLE+TOW	**6304**	**6094**	**6461**										**18859**	**15112**
SYNTHETIC (NONCELLULOSIC) YARN, MONOFIL & STRIPS														
ARGENTINA	0	0	43										43	76
BELGIUM	776	122	589										1487	171
BRAZIL	70	71	57										198	339
CANADA	3834	2895	4150										10879	9332
COSTA RICA	762	517	497										1776	1330
ECUADOR	53	16	67										136	261
FRANCE	2007	1305	1065										4377	3410
GERMANY, FED. REP. OF	2096	2021	1480										5597	7076
ISRAEL	0	0	0										0	688
ITALY	892	434	593										1919	2120
JAPAN	760	658	505										1923	1647
KOREA, REP. OF	31	0	90										121	66
MEXICO	1393	900	1607										3900	6054
NETHERLANDS	103	305	921										1329	528
SINGAPORE	16	16	0										32	25
TAIWAN	791	227	114										1132	875
THAILAND	58	93	95										246	198
UNITED KINGDOM	1881	1492	2076										5449	4248
ALL OTHER COUNTRIES [c]	413	319	196										928	432
TOTAL SYNTHETIC YARN	**15936**	**11391**	**14145**										**41472**	**38876**
SYNTHETIC (NONCELLULOSIC) STAPLE+TOW+TOPS														
AUSTRIA	0	53	11										64	12
AUSTRALIA	38	120	30										188	192
BELGIUM	1	16	0										17	206
CANADA	3703	2439	3082										9224	3631
FRANCE	592	297	769										1658	787
GERMANY, FED. REP. OF	1017	1236	1063										3316	5061
INDIA	1731	1055	4215										7001	3772
IRELAND	0	26	0										26	1065
ITALY	422	318	534										1274	1082
JAPAN	1754	1763	2307										5824	5833
KOREA, REP. OF	1786	1273	1778										4837	9617
MEXICO	3590	2041	2015										7646	1841
NETHERLANDS	1	0	57										58	233
SPAIN	35	0	0										35	186
SWITZERLAND	399	124	87										610	445
TAIWAN	888	572	931										2391	712
TURKEY	112	114	0										226	18
UNITED KINGDOM	2249	1868	2834										6951	6265
ALL OTHER COUNTRIES [d]	549	326	137										1012	100
TOTAL SYNTHETIC STAPLE+TOW	**18867**	**13641**	**19850**										**52358**	**41058**

a. Ecuador 33, Italy 21, France 14, Uruguay 13, Belgium 12, Taiwan 2, Thailand 2, Hong Kong 1, India 1

b. Poland 338, Sweden 238, Finland 117, Thailand 66, France 41, Netherlands 19, Italy 2

c. Portugal 345, Spain 194, Paraguay 83, Turkey 59, Switzerland 50, Ireland 39, Hong Kong 36, El Salvador 33, Sweden 25, Morocco 23, Finland 21, Yugoslavia 8, Austria 6, Haiti 3, Dominican Republic 2, Greece 1

d. Venezuela 395, Thailand 209, Sweden 180, Malaysia 88, Hong Kong 64, Poland 47, Brazil 27, Denmark 2

TABLE 15:
U.S. MANUFACTURED FIBER IMPORTS
THOUSAND POUNDS

ITEM	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	242	208	240										690	780
TEXTURED	54	8	0										62	181
OTHER	1385	1371	1471										4227	5039
MONOFILAMENTS & STRIPS	150	37	152										339	256
SUBTOTAL ABOVE	**1831**	**1624**	**1863**										**5318**	**6264**
STAPLE	5989	5884	6154										18027	15029
TOW	312	210	307										829	47
TOPS	3	0	0										3	36
SUBTOTAL ABOVE	**6304**	**6094**	**6461**										**18859**	**15112**
WASTE	**0**	**0**	**0**										**0**	**187**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	1435	856	1437										3728	3636
TEXTURED														
UP TO 450 DENIER	270	333	253										856	961
OVER 450 DENIER	2936	1350	2132										6418	3793
OTHER	4531	3817	4273										12621	10912
MONOFILAMENTS & STRIPS	216	117	148										481	289
SUBTOTAL ABOVE	**9388**	**6473**	**8243**										**24104**	**19591**
POLYESTER														
HIGH TENACITY	614	408	506										1528	2746
TEXTURED	785	643	626										2054	4294
POY	719	119	117										955	682
OTHER	2038	1457	1459										4954	4352
MONOFILAMENTS & STRIPS	53	0	67										120	179
SUBTOTAL ABOVE	**4209**	**2627**	**2775**										**9611**	**12253**
OTHER SYNTHETIC FILAMENT														
TEXTURED	1451	1408	2224										5083	5292
OTHER	277	223	301										801	986
MONOFILAMENTS & STRIPS	611	660	602										1873	754
SUBTOTAL ABOVE	**2339**	**2291**	**3127**										**7757**	**7032**
STAPLE														
NYLON	4048	3037	4055										11140	5467
POLYESTER	9261	5813	9622										24696	21225
ACRYLIC	1711	1729	2063										5503	4538
POLYPROPYLENE	543	37	160										740	296
OTHER	196	190	320										706	1863
TOW														
NYLON	409	308	555										1272	927
POLYESTER	15	70	70										155	256
ACRYLIC	2512	1973	2649										7134	4859
OTHER	70	5	35										110	383
TOPS	102	479	321										902	1244
SUBTOTAL ABOVE	**18867**	**13641**	**19850**										**52358**	**41058**
WASTE														
NYLON	2694	2074	1628										6396	5529
POLYESTER	2703	2241	1882										6826	2069
OTHER	444	571	1027										2042	1598
TOTAL MANUFACTURED FIBERS ABOVE	**48779**	**37636**	**46856**										**133271**	**110693**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	115	59	54										228	359
SPUN YARN	427	503	318										1248	1258
SPUN YARNS														
SYNTHETIC	2420	2155	2639										7214	14030
ARTIFICIAL	0	0	0										0	0
PUT UP FOR RETAIL SALE	32	24	70										126	148
GRAND TOTAL ABOVE	**51773**	**40377**	**49937**										**142087**	**126488**

SOURCE: U.S. Census Bureau Report IM145X

TABLE 16:
U.S. MANUFACTURED FIBER EXPORTS
THOUSAND POUNDS

ITEM	1990												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1990	1989
ARTIFICIAL (CELLULOSIC) FIBER														
FILAMENT YARN														
HIGH TENACITY	92	37	44										173	67
TEXTURED	217	9	30										256	509
OTHER	66	106	57										229	775
MONOFILAMENTS & STRIPS	97	0	15										112	97
SUBTOTAL ABOVE	**472**	**152**	**146**										**770**	**1448**
STAPLE	1195	2051	1838										5084	5938
TOPS	333	0	203										536	102
SUBTOTAL ABOVE	**1528**	**2051**	**2041**										**5620**	**6040**
WASTE	**330**	**407**	**614**										**1351**	**3449**
SYNTHETIC (NONCELLULOSIC) FIBERS														
FILAMENT YARN														
NYLON														
HIGH TENACITY	7757	7357	9332										24446	26625
TEXTURED														
UP TO 450 DENIER	1571	588	626										2785	1827
OVER 450 DENIER	5636	4353	5225										15214	15216
OTHER	2637	2264	3143										8044	6274
MONOFILAMENTS & STRIPS	8	32	93										133	684
SUBTOTAL ABOVE	**17609**	**14594**	**18419**										**50622**	**50626**
POLYESTER														
HIGH TENACITY	4308	5166	5459										14933	8926
TEXTURED	3074	3021	4078										10173	9713
POY	1831	2368	1287										5486	4393
OTHER	1297	1746	1824										4867	2420
MONOFILAMENTS & STRIPS	185	285	91										561	624
SUBTOTAL ABOVE	**10695**	**12586**	**12739**										**36020**	**26076**
OTHER SYNTHETIC FILAMENT														
TEXTURED	535	523	549										1607	2362
OTHER	2035	2007	2279										6321	4548
MONOFILAMENTS & STRIPS	876	913	1664										3453	1678
SUBTOTAL ABOVE	**3446**	**3443**	**4492**										**11381**	**8588**
STAPLE														
NYLON	3163	2765	2343										8271	9132
POLYESTER	7157	6405	9490										23052	37750
ACRYLIC	4584	3178	3882										11644	15643
POLYPROPYLENE	2038	1561	2666										6265	4034
OTHER	2688	923	1504										5115	4361
TOW														
NYLON	121	176	155										452	131
POLYESTER	18	64	0										82	1073
ACRYLIC	1710	1787	989										4486	4983
OTHER	26	12	15										53	211
TOPS	3984	2729	2309										9022	3035
SUBTOTAL ABOVE	**25489**	**19600**	**23353**										**68442**	**80353**
WASTE														
NYLON	4117	4250	3894										12261	6404
POLYESTER	3268	2845	2782										8895	11538
OTHER	3343	3700	4979										12022	20150
TOTAL MANUFACTURED FIBERS ABOVE	**70297**	**63628**	**73459**										**207384**	**214672**
OTHER MFRD. FIBER YARN & THREAD														
SEWING THREAD														
FILAMENT	28	45	32										105	107
SPUN YARN	0	0	0										0	0
SPUN YARNS														
SYNTHETIC	3007	4304	3749										11060	9218
ARTIFICIAL	0	0	0										0	0
PUT UP FOR RETAIL SALE	287	398	641										1326	2269
GRAND TOTAL ABOVE	**73619**	**68375**	**77881**										**219875**	**226266**

SOURCE: U.S. Census Bureau Report EM522

TABLE 17:
QUARTERLY MANUFACTURED FIBER DATA

MILLION POUNDS

ITEM	1988 1ST Q	1988 2ND Q	1988 3RD Q	1988 4TH Q	1988 YEAR	1989 1ST Q	1989 2ND Q	1989 3RD Q	1989 4TH Q	1989 YEAR	1990 1ST Q	1990 2ND Q	1990 3RD Q	1990 4TH Q	1990 YEAR
						YARN+MONOFILAMENTS									
ARTIFICIAL (CELLULOSIC) YARN [d]															
PRODUCTION	49.1	54.4	54.9	55.5	213.9	52.7	55.8	56.7	52.3	217.5	46.8				
SHIPMENTS - DOMESTIC	41.4	47.3	45.8	48.1	182.6	46.0	50.3	45.6	45.4	187.3	40.2				
- EXPORT	8.7	7.9	10.0	7.5	34.1	6.8	7.9	8.4	8.6	31.7	7.7				
TOTAL SHIPMENTS	50.1	55.2	55.8	55.6	216.7	52.8	58.2	54.0	54.0	219.0	47.9				
ENDING STOCK	13.2	12.4	11.5	11.4		11.3	8.9	11.6	9.9		8.8				
IMPORTS	4.0	4.0	4.4	5.2	17.6	6.3	5.9	1.3	6.8	26.3	5.3				
TOTAL AVAILABLE	45.4	51.3	50.2	53.3	200.2	52.3	56.2	52.9	52.2	213.6	45.5				
NYLON															
PRODUCTION	431.7	440.0	428.8	427.0	1727.5	436.9	447.5	434.8	440.0	1759.2	428.3				
SHIPMENTS - DOMESTIC	387.8	395.4	391.1	398.1	1572.4	387.9	399.7	400.9	386.8	1575.3	382.5				
- EXPORT	39.6	38.1	41.5	46.8	166.0	42.7	38.9	34.8	40.4	156.8	37.9				
TOTAL SHIPMENTS	427.4	433.5	432.6	444.9	1738.4	430.6	438.6	435.7	427.2	1732.1	420.4				
ENDING STOCK	140.5	147.0	143.2	125.3		131.6	140.5	139.6	152.4		160.3				
OLEFIN [e]															
PRODUCTION	307.6	313.8	296.6	306.1	1224.1	313.8	324.6	310.4	308.4	1257.2	332.3				
SHIPMENTS - DOMESTIC	303.5	307.7	288.8	299.8	1199.8	308.0	315.5	301.6	300.9	1226.0	327.8				
- EXPORT	2.7	5.9	6.0	5.2	19.8	5.2	6.4	7.2	3.7	22.5	4.6				
TOTAL SHIPMENTS	306.2	313.6	294.8	305.0	1219.6	313.2	321.9	308.8	304.6	1248.5	332.4				
ENDING STOCK	54.3	54.5	56.3	57.4		58.0	60.7	62.3	66.1		66.0				
POLYESTER															
PRODUCTION	284.5	313.5	304.6	326.2	1228.8	314.4	325.3	306.4	262.9	1209.0	262.1				
SHIPMENTS - DOMESTIC	266.7	291.9	278.2	320.6	1157.4	292.0	303.6	264.1	251.0	1110.7	241.7				
- EXPORT	18.8	17.8	16.7	21.4	74.7	16.0	13.1	13.3	16.2	58.6	16.7				
TOTAL SHIPMENTS	285.5	309.7	294.9	342.0	1232.1	308.0	316.7	277.4	267.2	1169.3	258.4				
ENDING STOCK	108.3	112.1	121.8	106.0		112.4	121.0	150.0	145.7		149.4				
TOTAL SYNTHETIC (NONCELLULOSIC) ABOVE															
PRODUCTION	1023.8	1067.3	1030.0	1059.3	4180.4	1065.1	1097.4	1051.6	1011.3	4225.4	1022.7				
SHIPMENTS - DOMESTIC	958.0	995.0	958.1	1018.5	3929.6	987.9	1018.8	966.6	938.7	3912.0	952.0				
- EXPORT	61.1	61.8	64.2	73.4	260.5	63.9	58.4	55.3	60.3	237.9	59.2				
SHIPMENTS	1019.1	1056.8	1022.3	1091.9	4190.1	1051.8	1077.2	1021.9	999.0	4149.9	1011.2				
ENDING STOCK	303.1	313.6	321.3	288.7		302.0	322.2	351.9	364.2		375.7				
DOMESTIC SHIPMENTS	958.0	995.0	958.1	1018.5	3929.6	987.9	1018.8	966.6	938.7	3912.0	952.0				
IMPORTS -TEXTURED YARN [b]	15.7	14.7	16.1	14.1	60.6	14.4	14.7	15.0	11.8	55.9	14.4				
-OTHER YARN [b]	11.2	11.1	11.9	13.4	47.6	23.3	33.0	32.5	28.6	117.4	24.6				
-MONOFILAMENTS	1.8	2.3	2.0	2.0	8.1	1.2	1.6	4.0	2.1	8.9	2.5				
TOTAL IMPORTS	28.7	28.1	30.0	29.5	116.3	38.9	49.3	51.5	42.5	182.2	41.5				
TOTAL AVAILABLE	986.7	1023.1	988.1	1048.0	4045.9	1026.8	1068.1	1018.1	981.2	4094.2	993.5				
						GLASS FIBER									
TOTAL SHIPMENTS	386.4	415.2	405.9	380.2	1587.7	394.2	399.3	363.4	373.2	1530.1	374.5				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. For 1988, these figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, 4336 & .4361. For 1989-1990 Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

d. Includes both rayon & acetate yarn.

e. For 1988, these figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390. For 1989-1990, Harmonized Tariff Schedule numbers, please see pages 73-79 of the April 1989 ***Fiber Organon.***

TABLE 17:
QUARTERLY MANUFACTURED FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1988 1ST Q	1988 2ND Q	1988 3RD Q	1988 4TH Q	1988 YEAR	1989 1ST Q	1989 2ND Q	1989 3RD Q	1989 4TH Q	1989 YEAR	1990 1ST Q	1990 2ND Q	1990 3RD Q	1990 4TH Q	1990 YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	106.6	101.2	99.4	92.6	399.8	100.8	101.2	83.2	77.6	362.8	73.3				
SHIPMENTS - DOMESTIC	101.9	102.0	94.0	88.1	386.0	99.7	91.7	76.6	70.2	338.2	77.6				
- EXPORT	5.1	6.1	5.5	3.8	20.5	3.4	5.4	4.3	3.1	16.2	4.1				
TOTAL SHIPMENTS	107.0	108.1	99.5	91.9	406.5	103.1	97.1	80.9	73.3	354.4	81.7				
ENDING STOCK	20.3	13.4	13.3	14.0		11.7	15.8	18.1	22.4		14.0				
DOMESTIC SHIPMENTS	101.9	102.0	94.0	88.1	386.0	99.7	91.7	76.6	70.2	338.2	77.6				
IMPORTS FOR CONSUMPTION															
STAPLE	3.2	3.8	5.5	6.5	19.0	15.1	13.3	12.4	13.2	54.0	18.9				
GROUPED FILAMENTS	0.2	0.3	0.5	0.4	1.4										
TOTAL IMPORTS	3.4	4.1	6.0	6.9	20.4	15.1	13.3	12.4	13.2	54.0	18.9				
TOTAL AVAILABLE	105.3	106.1	100.0	95.0	406.4	114.8	105.0	89.0	83.4	392.2	96.5				
NYLON															
PRODUCTION	231.5	235.9	226.6	247.8	941.8	252.9	242.0	241.0	244.8	980.7	237.0				
SHIPMENTS-DOMESTIC	239.4	223.9	241.6	240.0	944.9	242.0	231.2	245.8	236.3	955.3	242.6				
-EXPORT	4.3	4.3	4.9	5.5	19.0	7.5	4.8	5.4	5.5	23.2	7.1				
TOTAL SHIPMENTS	243.7	228.2	246.5	245.5	963.9	249.5	236.0	251.2	241.8	978.5	249.7				
ENDING STOCK	57.5	65.2	45.3	47.6		51.0	57.0	46.8	49.8		37.1				
IMPORTS	4.9	5.1	5.4	6.5	21.9	6.4	5.4	5.4	8.9	26.1	12.4				
TOTAL AVAILABLE	244.3	229.0	247.0	246.5	966.8	248.4	236.6	251.2	245.2	981.4	255.0				
ACRYLIC+MODACRYLIC															
PRODUCTION	148.8	150.9	141.5	146.9	588.1	144.3	145.6	129.4	123.4	542.7	129.6				
SHIPMENTS-DOMESTIC	109.0	109.3	107.3	95.5	421.1	112.9	112.4	102.8	86.7	414.8	98.8				
-EXPORT	47.7	29.1	39.8	52.5	169.1	23.6	32.5	30.0	36.5	122.6	24.5				
TOTAL SHIPMENTS	156.7	138.4	147.1	148.0	590.2	136.5	144.9	132.8	123.2	537.4	123.3				
ENDING STOCK	55.4	67.9	62.3	61.2		69.0	69.7	66.3	66.5		72.8				
IMPORTS	3.3	4.4	3.3	4.3	15.3	9.4	11.1	8.5	8.5	37.5	12.6				
TOTAL AVAILABLE	112.3	113.7	110.6	99.8	436.4	122.3	123.5	111.3	95.2	452.3	111.4				
OLEFIN															
PRODUCTION	94.3	94.5	85.9	89.3	364.0	97.1	97.7	92.0	94.8	381.6	96.9				
SHIPMENTS-DOMESTIC	83.8	87.6	84.8	88.0	344.2	91.6	93.5	91.4	86.9	363.4	94.0				
-EXPORT	5.6	5.8	4.4	3.8	19.6	3.1	3.7	3.4	3.8	14.0	6.0				
TOTAL SHIPMENTS	89.4	93.4	89.2	91.8	363.8	94.7	97.2	94.8	90.7	377.4	100.0				
ENDING STOCK	35.0	36.1	32.8	30.3		32.8	33.3	30.5	34.6		31.5				
POLYESTER															
PRODUCTION	587.4	619.5	604.3	640.6	2451.8	609.4	648.8	591.0	536.1	2385.3	520.8				
SHIPMENTS-DOMESTIC	558.3	572.5	551.2	629.8	2311.8	575.4	594.6	543.0	548.3	2261.3	502.5				
-EXPORT	27.8	31.1	38.2	40.0	137.1	34.9	21.7	20.1	16.8	93.5	15.3				
TOTAL SHIPMENTS	586.1	603.6	589.4	669.8	2448.9	610.3	616.3	563.1	565.1	2354.8	517.8				
ENDING STOCK	157.8	173.7	188.6	159.4		158.5	191.0	218.9	189.9		192.9				
IMPORTS	15.0	20.7	22.3	15.2	73.2	21.5	29.9	34.5	32.7	118.6	24.9				
TOTAL AVAILABLE	573.3	593.2	573.5	645.0	2385.0	596.9	624.5	577.5	581.0	2379.9	527.4				
TOTAL SYNTHETIC (NONCELLULOSIC)															
PRODUCTION	1062.0	1100.8	1058.3	1124.6	4345.7	1103.7	1134.1	1053.4	999.1	4290.3	984.3				
SHIPMENTS-DOMESTIC	990.5	993.3	984.9	1053.3	4022.0	1021.9	1031.7	983.0	958.2	3994.8	937.9				
-EXPORT	85.4	70.3	87.3	101.8	344.8	69.1	62.7	58.9	62.6	253.3	52.9				
TOTAL SHIPMENTS	1075.9	1063.6	1072.2	1155.1	4366.8	1091.0	1094.4	1041.9	1020.8	4248.1	990.8				
ENDING STOCK	305.7	342.9	329.0	298.5		311.3	351.0	362.5	340.8		334.3				
DOMESTIC SHIPMENTS	990.5	993.3	984.9	1053.3	4022.0	1021.9	1031.7	983.0	958.2	3994.8	937.9				
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [C]	23.2	30.2	31.0	26.0	110.4	37.3	46.4	48.4	50.1	182.2	49.9				
OTHER N.C. STAPLE [B]	5.6	5.7	4.3	4.2	19.8	3.7	2.8	1.7	2.0	10.2	2.5				
GROUPED FILAMENTS	14.5	17.8	15.7	17.8	65.8										
TOTAL IMPORTS	43.3	53.7	51.0	48.0	196.0	41.0	49.2	50.1	52.1	192.4	52.4				
TOTAL AVAILABLE	1033.8	1047.0	1035.9	1101.3	4218.0	1062.9	1080.9	1033.1	1010.3	4187.2	990.3				

See footnotes on opposite page

TABLE 18:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1990 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[a] 1990	1989
MANUFACTURED FIBER TOTAL SHIPMENTS[b,c]														
ARTIFICIAL (CELLULOSIC)														
YARN	15.1	15.4	17.4	18.1									66.0	74.3
RAYON STAPLE	30.1	25.3	26.3	28.2									109.9	134.5
TOTAL ARTIFICIAL (CELLULOSIC)	**45.2**	**40.7**	**43.7**	**46.3**									**175.9**	**208.8**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	24.9	30.3	28.4	28.4									112.0	126.7
- CARPET	86.5	81.1	82.2	85.4									335.2	311.6
- TEXTILE[f]	28.9	28.2	29.9	32.0									119.0	136.7
POLYESTER - INDUSTRIAL[d]	27.2	28.6	31.8	32.6									120.2	121.4
- TEXTILE[f]	56.6	56.2	58.0	69.8									240.6	297.0
OLEFIN[e]	104.5	113.9	114.1	112.3									444.8	417.3
TOTAL YARN	**328.6**	**338.3**	**344.4**	**360.5**									**1371.8**	**1410.7**
STAPLE+TOW+FIBERFILL														
NYLON	88.8	74.9	86.0	85.0									334.7	325.9
ACRYLIC+MODACRYLIC	40.4	39.7	43.2	39.7									163.0	185.7
POLYESTER	168.9	175.7	173.2	181.7									699.5	824.6
OLEFIN	30.3	34.4	35.3	34.5									134.5	126.1
TOTAL STAPLE	**328.4**	**324.7**	**337.7**	**340.9**									**1331.7**	**1462.3**
TOTAL SYNTHETIC (NONCELLULOSIC)	**657.0**	**663.0**	**682.1**	**701.4**									**2703.5**	**2873.0**
TOTAL MANUFACTURED FIBER	**702.2**	**703.7**	**725.8**	**747.7**									**2879.4**	**3081.8**
MANUFACTURED FIBER END-OF-MONTH STOCK														
ARTIFICIAL (CELLULOSIC)														
YARN	9.7	9.9	8.8	9.1									9.1	10.4
RAYON STAPLE	20.2	17.2	14.0	14.2									14.2	12.5
TOTAL ARTIFICIAL (CELLULOSIC)	**29.9**	**27.1**	**22.8**	**23.3**									**23.3**	**22.9**
SYNTHETIC (NONCELLULOSIC)														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	36.8	33.7	33.4	36.0									36.0	22.9
- CARPET	60.5	61.2	62.6	63.0									63.0	68.7
- TEXTILE[f]	57.0	59.9	64.3	63.5									63.5	47.0
POLYESTER - INDUSTRIAL[d]	39.3	40.6	39.5	39.2									39.2	31.6
- TEXTILE[f]	94.5	104.9	109.9	106.4									106.4	85.1
OLEFIN[e]	68.1	66.6	66.0	63.7									63.7	57.8
TOTAL YARN	**356.2**	**366.9**	**375.7**	**371.8**									**371.8**	**313.1**
STAPLE+TOW+FIBERFILL														
NYLON	40.1	40.5	37.1	44.3									44.3	57.5
ACRYLIC+MODACRYLIC	69.5	70.9	72.8	75.3									75.3	67.3
POLYESTER	193.5	195.1	192.9	217.9									217.9	164.4
OLEFIN	34.6	33.4	31.5	30.5									30.5	34.3
TOTAL STAPLE	**337.7**	**339.9**	**334.3**	**368.0**									**368.0**	**323.5**
TOTAL SYNTHETIC (NONCELLULOSIC)	**693.9**	**706.8**	**710.0**	**739.8**									**739.8**	**636.6**
TOTAL MANUFACTURED FIBER	**723.8**	**733.9**	**732.8**	**763.1**									**763.1**	**659.5**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL														
CARPET CLASS WOOL														
TOTAL RAW WOOL[g]														
RAW COTTON	317.3	332.1	369.9										1019.3	949.9
1989 WOOL & COTTON CONSUMPTION - REVISED														
APPAREL CLASS WOOL	11.2	11.8	12.8	10.8	11.7	11.6	9.2	9.7	10.4	8.7	8.6	9.0	125.5	140.7
CARPET CLASS WOOL	0.8	1.2	1.3	1.4	1.3	1.2	1.1	1.3	1.5	1.1	0.9	1.0	14.1	15.4
TOTAL RAW WOOL	**12.0**	**13.0**	**14.1**	**12.2**	**13.0**	**12.8**	**10.3**	**11.0**	**11.9**	**9.8**	**9.5**	**10.0**	**139.6**	**156.1**
RAW COTTON	296.8	305.9	347.2	311.9	370.2	351.1	294.0	341.0	400.4	332.7	324.0	310.7	3985.9	3470.1

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.
g. **Wool data for 1990 available on a quarterly basis only.**

C3460-1

FIBER ORGANON

Formerly Textile Organon

Volume 61, No. 6 ☐ June 1990

A publication of *Fiber Economics Bureau, Inc.*

WORLDWIDE MANUFACTURED FIBER SURVEY

Highlights

- Worldwide Survey -

  Fiber Demand
  Production and Producing Capacities
  Utilization Rates
  Directory of Producers
  Ownership Listing
  Olefin Fiber Production

Featuring....

Our annual survey of worldwide manufactured fiber production and planned capacity, with a worldwide directory of manufactured fiber producers.

Worldwide data in this issue are reported in thousand metric tons. The production and capacity tables will be published again in the July issue in millions of pounds. Country data on available supply will be published in the ***Fiber Organon*** as soon as information is available.

Data for previous years for most of the tables in this issue can be found in the ***Textile Organon Base Book*** (1962) and subsequent June issues of the ***Textile Organon*** and ***Fiber Organon***. The cotton demand figures shown in the table below are based on worldwide consumption rather than production, to eliminate problems from wide swings in cotton inventories.

TABLE 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
THOUSAND METRIC TONS

TYPE OF FIBER	1985	1986	1987	1988	1989	% CHANGE 1989 / 1988
ARTIFICIAL (CELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	924	924	910	948	928	*-2.1*
STAPLE+TOW	2007	1935	1941	1939	1946	*+0.4*
TOTAL ARTIFICIAL (CELLULOSIC)	**2931**	**2859**	**2851**	**2887**	**2874**	***-0.5***
SYNTHETIC (NONCELLULOSIC) FIBERS						
YARN+MONOFILAMENTS	5578	5694	6040	6542	6719	*+2.7*
STAPLE+TOW	6911	7247	7704	7821	7998	*+2.3*
TOTAL SYNTHETIC (NONCELLULOSIC)	**12489**	**12941**	**13744**	**14363**	**14717**	***+2.5***
TOTAL MANUFACTURED [a]	**15420**	**15800**	**16595**	**17250**	**17591**	***+2.0***
% of World Total	*46%*	*44%*	*45%*	*46%*	*46%*	
NATURAL FIBERS						
RAW COTTON [b]	16565	18280	18243	18484	18733	*+1.3*
RAW WOOL [c]	1722	1790	1835	1883	1933	*+2.7*
RAW SILK [d]	59	63	63	64	66	*+3.1*
TOTAL NATURAL	**18346**	**20133**	**20141**	**20431**	**20732**	***+1.5***
% of World Total	*54%*	*56%*	*55%*	*54%*	*54%*	
WORLD TOTAL	**33766**	**35933**	**36736**	**37681**	**38323**	***+1.7***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

The silk and manufactured fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Manufactured fiber data are from tables 3 and 4. Glass fiber, olefin and acetate cigarette tow production are not included.
b. International Cotton Advisory Committee. ***COTTON: Review of the World Situation***, May - June 1990. New series based on cotton consumption data.
c. Commonwealth Secretariat. ***Wool Quarterly***, No.III, 1989, on a clean wool basis. See also the December 1989 ***Fiber Organon***, page 267.
d. International Silk Association; Food and Agriculture Organization of the United States.

Fiber Organon

A Monthly Review

June 1990

CONTENTS

Features

Worldwide Manufactured Fiber Survey	**105 - 152**
Worldwide Demand for Certain Fibers	105
Number of Manufactured Fiber Producing Plants	107
Worldwide Synthetic (Noncellulosic) Fiber Production & Producing Capacity by Country	108 - 111
Worldwide Artificial (Cellulosic) Fiber Production & Producing Capacity by Country	112 - 115
Worldwide Rayon vs. Acetate Filament Yarn Production & Producing Capacity by Country	116 - 117
Worldwide Synthetic (Noncellulosic) Fiber Production & Producing Capacity by Fiber	118 - 119
Worldwide Glass Fiber Production & Producing Capacity	120
Estimated Worldwide Cigarette Tow Production	120
Worldwide Olefin Fiber Production by Country	121
Worldwide Directory of Manufactured Fiber Producers	**122 - 150**
Worldwide Ownership Listing	**151 - 152**

Industry Regulars

Monthly U.S. Manufactured Fiber Data	**153 - 155**
Imports by Country of Origin	153
Imports by Fiber	154
Exports by Fiber	155
Quarterly Manufactured Fiber Data	**156 - 157**
Filament Yarn Domestic Shipments	156
Staple+Tow Domestic Shipments	157
Selected U.S. Monthly Fiber Data	**158**

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TABLE 2:
NUMBER OF MANUFACTURED FIBER PRODUCING PLANTS (EXCEPT OLEFIN)

COUNTRY & REGION	ARTIFICIAL (CELL.)		SYNTHETIC (NONCELLULOSIC)					GLASS FIBER	GRAND TOTAL
	ACETATE[a]	RAYON	ACRYLIC[b]	NYLON[c]	POLY-ESTER	OTHER[d]	TOTAL		
WESTERN EUROPE									
AUSTRIA		3			1	1	2		5
BELGIUM/LUXEMBOURG	1	1		3	1		4	2	8
FINLAND		1		1			1	1	3
FRANCE		1	1	8	3	1	13	2	16
GERMANY, FED. REP.	1	4	3	11	11	4	29	3	37
GREECE		1	1	2	3		6		7
IRELAND			1	1	2		4		4
ITALY/MALTA	2	2	5	17	11	2	35	2	41
NETHERLANDS		1		1	1	2	4	1	6
NORWAY								1	1
PORTUGAL		2	1	2	1		4	1	7
SPAIN	1	2	2	7	5		14	1	18
SWEDEN		1						1	2
SWITZERLAND				5	3		8		8
TURKEY		1	2	5	8		15	1	17
UNITED KINGDOM	2	1	2	8	6	4	20	6	29
TOTAL WESTERN EUROPE	7	21	18	71	56	14	159	22	209
EASTERN EUROPE									
ALBANIA					1		1		1
BULGARIA		1	1	1	1		3		4
CZECHOSLOVAKIA		6		3	2		5	2	13
GERMANY, DEM. REP.		8	2	3	2	1	8	1	17
HUNGARY		2	1	1			2		4
POLAND		4	1	1	2	2	6	2	12
ROMANIA		3	1	1	4		6		9
USSR	4	15	1	12	4	1	18	11	48
YUGOSLAVIA		2	1	2	5		8	1	11
TOTAL EASTERN EUROPE	4	41	8	24	21	4	57	17	119
U.S.A.	3	3	5	37	35	9	86	17	109
CANADA	1	1		3	1	1	5	1	8
OTHER AMERICAS									
ARGENTINA	1		1	7	5	1	14	1	16
BRAZIL	1	2	2	16	12	1	31	1	35
CHILE		1		2	3		5		6
COLOMBIA	1			3	5		8		9
COSTA RICA					1		1		1
CUBA		1							1
ECUADOR					3		3		3
GUATEMALA				1			1		1
MEXICO	1	1	3	8	9	2	22	1	25
PERU	1		1	3	3		7		8
URUGUAY	1			3	2		5		6
VENEZUELA	1			2	3	1	6		7
TOTAL OTHER AMERICAS	7	5	7	45	46	5	103	3	118
JAPAN	2	11	7	14	19	18	58	13	84
CHINA, PRC	e	9	10	12	20	8	50	3	62
OTHER ASIA									
BANGLADESH		2	1	1			2		4
INDIA	1	12	3	12	18		33		46
INDONESIA		3	1	5	12		18		21
KOREA, REP. OF	1	1	2	5	11	3	21		23
MALAYSIA		5		1	10		11		16
PAKISTAN	1			3	11		14		15
PHILIPPINES		1		2	2		4		5
SRI LANKA				1			1		1
TAIWAN		3	3	14	17		34		37
THAILAND		1	1	3	6		10		11
TOTAL OTHER ASIA	3	28	11	47	87	3	148		179
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA				2	2		4	1	5
EGYPT		2		1	2		3		5
IRAN			1	2	1		4		4
IRAQ		1							1
ISRAEL				1			1		1
KENYA				1	6		7		7
NIGERIA					1		1		1
SOUTH AFRICA				3	4		7		7
TANZANIA					1		1		1
TOTAL MIDDLE EAST, AFRICA & OCEANIA		3	1	10	17		28	1	32
WORLD TOTAL*	27	122	67	263	302	62	694	77	920

Planned facilities indicated by an asterick (*) in our listing of worldwide producers are not included in the above table.

* Data for North Korea are not included here.

a. Acetate includes triacetate.

b. Acrylic includes modacrylic.

c. Nylon excludes aramid.

d. Other includes 21 spandex, 11 vinyon, 6 saran, 6 vinal, 5 aramid, 2 biconstituent, 2 fluorocarbon, and 1 each of azlon, cupro, PBI, polyacrylate, polycarbonate, polychlal, polioxiamide, promix and sulfar.

e. China, PRC acetate data included with rayon data.

TABLE 3:
WORLDWIDE SYNTHETIC (NONCELLULOSIC) FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN

THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1985			1986			1987		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	18.1	18.1	0	15.9	15.9	0	15.7	15.7
BENELUX[a]	80.5	30.1	110.6	73.0	34.4	107.4	74.0	33.0	107.0
FINLAND	0.5	0	0.5	0.2	0	0.2	0.1	0	0.1
FRANCE	60.7	122.0	182.7	61.2	106.0	167.2	56.8	104.2	161.0
GERMANY, FED. REP.	360.0	402.0	762.0	350.0	395.0	745.0	355.3	404.0	759.3
GREECE	9.0	10.0	19.0	9.4	10.5	19.9	9.4	10.0	19.4
IRELAND	11.5	45.3	56.8	11.0	61.0	72.0	11.0	63.0	74.0
ITALY/MALTA	171.6	392.0	563.6	175.0	401.9	576.9	171.0	393.6	564.6
PORTUGAL	1.0	51.0	52.0	0	55.0	55.0	0	57.8	57.8
SPAIN	85.0	189.9	274.9	84.9	191.3	276.2	80.5	188.0	268.5
SWITZERLAND	73.1	26.6	99.7	67.1	26.0	93.1	66.2	22.1	88.3
TURKEY	52.0	134.0	186.0	60.0	169.0	229.0	69.0	191.0	260.0
UNITED KINGDOM	84.7	158.0	242.7	78.2	130.0	208.2	81.4	121.6	203.0
TOTAL WESTERN EUROPE	**989.6**	**1579.0**	**2568.6**	**970.0**	**1596.0**	**2566.0**	**974.7**	**1604.0**	**2578.7**
EASTERN EUROPE									
ALBANIA	0.4	0	0.4	0.4	0	0.4	0.5	0	0.5
BULGARIA	28.0	42.8	70.8	38.0	47.9	85.9	39.6	48.7	88.3
CZECHOSLOVAKIA	76.0	38.8	114.8	74.7	45.8	120.5	76.6	46.5	123.1
GERMANY, DEM. REP.	65.0	80.8	145.8	77.0	81.8	158.8	72.6	80.7	153.3
HUNGARY	8.4	14.4	22.8	8.4	15.6	24.0	6.8	16.9	23.7
POLAND	86.4	50.6	137.0	85.6	46.6	132.2	87.8	46.6	134.4
ROMANIA	58.0	138.8	196.8	58.8	140.9	199.7	59.5	142.4	201.9
USSR	388.8	324.0	712.8	404.8	353.0	757.8	435.0	410.2	845.2
YUGOSLAVIA	35.5	59.5	95.0	39.7	57.6	97.3	46.0	63.9	109.9
TOTAL EASTERN EUROPE	**746.5**	**749.7**	**1496.2**	**787.4**	**789.2**	**1576.6**	**824.4**	**855.9**	**1680.3**
TOTAL EUROPE	**1736.1**	**2328.7**	**4064.8**	**1757.4**	**2385.2**	**4142.6**	**1799.1**	**2459.9**	**4259.0**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1988			1989			3/1990			12/1991		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	16.7	16.7	0	17.4	17.4	*0*	*22.0*	*22.0*	*0*	*22.0*	*22.0*
76.9	33.6	110.5	80.0	40.0	120.0	*103.5*	*76.5*	*180.0*	*103.5*	*81.5*	*185.0*
0.1	0	0.1	0.2	0	0.2	*0.5*	*0*	*0.5*	*0.5*	*0*	*0.5*
58.4	116.4	174.8	58.4	106.6	165.0	*80.5*	*127.5*	*208.0*	*67.0*	*128.0*	*195.0*
359.9	391.2	751.1	355.0	420.0	775.0	*423.0*	*438.0*	*861.0*	*432.0*	*443.0*	*875.0*
9.5	9.5	19.0	10.2	8.0	18.2	*17.0*	*12.0*	*29.0*	*17.0*	*12.0*	*29.0*
13.5	65.7	79.2	16.7	73.3	90.0	*14.0*	*82.0*	*96.0*	*18.0*	*82.0*	*100.0*
186.6	377.6	564.2	195.0	345.0	540.0	*197.0*	*446.0*	*643.0*	*195.0*	*455.0*	*650.0*
0	54.3	54.3	0	55.8	55.8	*0*	*66.0*	*66.0*	*0*	*66.0*	*66.0*
79.6	185.8	265.4	79.3	175.7	255.0	*119.0*	*222.0*	*341.0*	*119.0*	*221.0*	*340.0*
72.8	27.4	100.2	72.6	23.0	95.6	*85.0*	*33.0*	*118.0*	*80.0*	*33.0*	*113.0*
77.0	182.0	259.0	87.0	196.0	283.0	*166.0*	*241.0*	*407.0*	*173.0*	*251.0*	*424.0*
93.6	99.9	193.5	100.0	85.0	185.0	*108.0*	*160.0*	*268.0*	*100.0*	*170.0*	*270.0*
1027.9	**1560.1**	**2588.0**	**1054.4**	**1545.8**	**2600.2**	***1313.5***	***1926.0***	***3239.5***	***1305.0***	***1964.5***	***3269.5***
0.5	0	0.5	0.5	0	0.5	*2.0*	*0*	*2.0*	*2.0*	*5.0*	*7.0*
40.9	49.2	90.1	41.2	49.6	90.8	*60.0*	*108.0*	*168.0*	*60.0*	*108.0*	*168.0*
81.3	48.0	129.3	76.1	52.3	128.4	*100.9*	*87.0*	*187.9*	*100.9*	*87.0*	*187.9*
78.3	85.2	163.5	76.0	88.6	164.6	*97.3*	*130.0*	*227.3*	*107.3*	*130.0*	*237.3*
8.5	18.1	26.6	6.6	19.0	25.6	*12.5*	*20.0*	*32.5*	*12.5*	*43.0*	*55.5*
89.4	53.3	142.7	80.2	49.4	129.6	*114.2*	*71.0*	*185.2*	*114.2*	*86.0*	*200.2*
59.4	143.6	203.0	59.7	144.1	203.8	*68.0*	*179.0*	*247.0*	*68.0*	*179.0*	*247.0*
457.7	411.1	868.8	468.2	422.0	890.2	*540.0*	*525.0*	*1065.0*	*569.0*	*537.0*	*1106.0*
45.2	57.8	103.0	47.1	60.4	107.5	*72.0*	*112.0*	*184.0*	*76.0*	*112.0*	*188.0*
861.2	**866.3**	**1727.5**	**855.6**	**885.4**	**1741.0**	***1066.9***	***1232.0***	***2298.9***	***1109.9***	***1287.0***	***2396.9***
1889.1	**2426.4**	**4315.5**	**1910.0**	**2431.2**	**4341.2**	***2380.4***	***3158.0***	***5538.4***	***2414.9***	***3251.5***	***5666.4***